



**HARTCROWSER**

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## Memorandum

To: Stan Jones  
From: Stacey Callison / Randi Wexler  
Project: Transformer and Circuit Breaker Oil Sampling  
Subject: Terminal 1, Transformer and Circuit Breaker Oil Sampling and PCB analysis

Date: February 28, 1997  
Job No.: 5623  
Port Proj.: 51833  
Port Task: 216

On February 21, 1997, we met Jennifer Bushman and Juliet Hahn of the Port of Portland (Port) at Terminal 1 to sample oil from an electrical transformer and a circuit breaker. The electrical transformer and circuit breaker are not in use and are being stored at Terminal 1 - House 106.

Oil samples were taken from sampling ports located near the bottom of each piece of equipment. A sample container was directly filled from the circuit breaker sampling port. Transformer oil was sampled by allowing oil from the sampling port to slowly flow into an aluminum pie tin and then filling the sample container from the tin using a disposable laboratory supplied sampler. Sample containers were marked with a sample number, project number, and date and transported to the laboratory.

The two oil samples were analyzed for PCBs by EPA Method 8080 by Oregon Analytical Laboratory (OAL) of Beaverton, Oregon. Oil from the transformer has a PCB concentration of 12 µg/g. Oil from the circuit breaker has a PCB concentration of 8 µg/g. The OAL analytical report is included with this memorandum.

Both PCB concentrations are below the regulatory PCB classification of 50 µg/g. Based on the analytical results each piece of equipment is considered "non PCB." We recommend that each piece of equipment be labeled as "non PCB." We also recommend the Port evaluate if these units should be properly recycled.

If you have any questions please call.

USEPA SF



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C: Emily Horne